

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3. (Canceled)

4. (Currently Amended) A system for generating application user interfaces ~~having a customized user interaction~~ enabling customization of the user interfaces for each of a plurality of users, the system comprising:

a personalization server including a personalization engine and operable to deliver a user profile interface to a client device for each of a plurality of users, the personalization server being further operable to allow each user to modify personalization data for that user through the user profile interface, the personalization data characterizing at least one property of at least one user interface element of the application user interface presented on the client device of each user; a customizable interaction model for use with a plurality of application user interfaces to specify the customized user interaction;

an Internet application server operable to execute at least one selected Internet application of a plurality of Internet applications ~~including a selected application user interface,~~ the Internet application server including a user interface generator operable to generate markup language ~~for the selected application user interface~~ at least one application user interface for the selected Internet application, customized for each user using metadata for the ~~selected~~ at least one application user interface, ~~the customizable interaction model,~~ and the personalization data for ~~a requesting each user requesting the at least one application user interface using the client device of each user; of the plurality of users to which the selected application user interface is to be displayed, in order to include the customized user interaction for the requesting user with the selected application user interface;~~

a data repository including a data record for storing the personalization data for each of the plurality of users, the data record being accessible using the metadata; and

a web server operable to deliver the ~~generated markup language for the selected~~ customized application user interface to ~~[[a]]~~ the client device ~~for~~ of each of the plurality of users. ~~[[,]]~~

~~wherein the customizable interaction model is usable by each of the plurality of Internet applications to provide the customizable user interaction characterized by the personalization data for the requesting user, independent of the type of application user interface used by that Internet application;~~

~~wherein each user of the plurality of users is able to specify a customized user interaction that is different from a customized user interaction for other users of the plurality of users, such that a single application user interface functions differently for different users, and~~

~~wherein the customized user interaction for the requesting user is the same for each of the plurality of application user interfaces.~~

5. (Currently Amended) The system of claim 4, wherein ~~the plurality of~~ the application user interface customized for each of the plurality of users includes customization of an interaction model. ~~interfaces utilizes separately configurable interaction models.~~

6. (Currently Amended) The system of claim ~~[[4]]~~ 5, wherein the interaction model determines the timing of communication between the client device and the web server. ~~is responsive to the customizable interaction model.~~

7. (Currently Amended) A system for developing an Internet application including an application user interface with a customizable user interaction model, the system comprising:

an application development ~~server~~ system operable to allow a developer to specify ~~[[a]]~~ at least one user interface element to be included in the application user interface, the at least one user interface element being associated with a ~~user customizable~~ an interaction model, ~~the user customizable interaction model allowing each user of~~ customizable by each of a plurality of users on a client device accessing the application user interface to modify

functionality of the at least one user interface element; ~~the user customizable interaction model operable to be used with any application user interface independent of the type of interface;~~

an application designer configured to produce metadata to ~~characterize~~ associated with the user customizable interaction model;

a personalization ~~server system~~ including a personalization engine and operable to deliver a user profile interface to the client device of each of [[a]] the plurality of users, the personalization system being further operable to allow each user to modify personalization data - for that user through the user profile interface, the personalization data characterizing the ~~eustomizable~~ interaction model for each user for the at least one user interface element included in the application user interface presented on the client device of each user; ~~use with the Internet application and any other application using that customizable interaction model;~~ and

a data repository including a ~~user modifiable~~ data record for each of the plurality of users configured to store the personalization data for each of the plurality of users, the data record being accessible using the metadata, ~~characterizing the user customizable interaction model;~~

wherein the application user interface contains different functionality of the at least one user interface element for different users depending upon the personalization data for those users, ~~and~~

~~wherein the functionality of the user interface element for a particular user is the same for each application user interface utilizing the customizable interaction model.~~

8. (Currently Amended) The system of claim 7, wherein the application development server is further configured to specify display of an interaction model control command in the application user interface, the interaction model control command being configured for [[a]] each user to change the user customizable customize the interaction model.

9. (Currently Amended) The system of claim 7, wherein the ~~user~~ ~~eustomizable~~ interaction model customizable by each user ~~includes deferred and immediate modes~~ allows selection from a keyboard and point-click based interaction model, and from a

deferred and immediate communication based interaction model between the client device and the Internet application for each user interface element.

10. (Currently Amended) The system of claim 7, wherein the ~~user~~ ~~customizable~~ interaction model is configurable according to the identity of ~~[[a]]~~ each user or the identity of the client device of each user.

11. (Currently Amended) The system of claim 7, wherein a state of the ~~user~~ ~~customizable~~ interaction model is further configurable to persist between uses of the application user interface.

12. (Currently Amended) The system of claim 7, wherein the ~~user-modifiable~~ data record is further ~~user~~ modifiable using a configuration system.

Claims 13-14. (Canceled)

15. (Currently Amended) A system for generating a user interface, ~~with customized user interaction, the system~~ comprising:

an Internet application server operable to support an Internet application;

an application user interface generator operable to generate ~~[[a]]~~ the user interface for the Internet application for display on a client device of each of a plurality of users, the user interface being generated using ~~a customizable interaction model~~ and personalization data for a ~~user~~ each of the plurality of users, the personalization data being modifiable by each of the plurality of users and the personalization data characterizing at least one property of the user interface, the at least one property including an interaction model between the client device and the Internet application server; allowing the user to modify a user interaction with the user interface;

metadata characterizing associated with the customizable interaction model at least one property of the user interface; and

a data repository including a data record for ~~characterizing the customizable interaction model, the data record being user modifiable and being accessible using the metadata~~
storing the personalization data for each of the plurality of users on the client device,

~~wherein the customizable interaction model is operable to be used to generate a respective application user interface for each of a plurality of additional applications, whereby the user interaction customized by the user is provided with the respective application user interface independent of a type of the application user interface,~~

wherein each of ~~[[a]]~~ the plurality of users is able to ~~specify~~ modify the personalization data for ~~the customizable interaction model~~ such that the application user interface functions differently for different users, ~~and~~

~~wherein the customized user interaction for each of the plurality of users is the same for each of the additional applications.~~

16. (Currently Amended) The system of claim 15, wherein the application user interface is configured for display on the client device using standard web browser protocols.

17. (Currently Amended) The system of claim 15, wherein the application user interface is further configured for display on the client device using features of a web browser, the features not requiring a browser add-on, plug-in, or extension.

18. (Canceled)

19. (Previously Presented) The system of claim 15, further including a configuration system configured to modify the data record.

20. (Previously Presented) The system of claim 19, wherein the configuration system is included in the Internet application.

21. (Currently Amended) An Internet application system having processor readable storage devices and processor readable code embedded therein for executing instructions on a computer system, comprising:

a user interface generator configured to generate an application user interface, the application user interface being compatible with a standard web browser and being generated in response to a request from a client device of each of a plurality of users user, the user interface generator utilizing ~~a user customizable interaction model allowing each user of the application user interface to modify user interaction with the application user interface~~ personalization data to generate the application user interface;

a web application server configured to deliver the ~~generated~~ application user interface to the client device of each user; and

an Internet application accessible to the each user through the generated application user interface,

~~wherein the customizable interaction model is operable to be used to generate a respective application user interface for each of a plurality of additional applications, whereby the user interaction customized by the user is provided with the respective application user interface, independent of a type of the application user interface, and delivered to the client,~~

wherein each user is able to specify modify the personalization data, the personalization data characterizing at least one property of the user interface, the at least one property including an interaction model between the client device and the Internet application system, ~~for the customizable interaction model~~ such that the application user interface functions differently for different users, ~~and~~

~~wherein the customized user interaction for each user is the same for each application utilizing the customizable interaction model.~~

22. (Currently Amended) The Internet application system of claim 21, wherein the user interface generator is further configured to use metadata to ~~characterize the user customizable interaction model~~ generate the application user interface.

23. (Currently Amended) The Internet application system of claim 21, wherein the ~~user customizable~~ interaction model is specific to a user interface element included in the application user interface.

Claims 24-25. (Cancelled)

26. (Currently Amended) The Internet application system of claim 21, wherein the user ~~customizable interaction model~~ interface generator is responsive to an identity of the client device or to an identity of ~~the~~ each user.

27. (Currently Amended) The Internet application system of claim 21, wherein the ~~user customizable~~ interaction model customizable by each user allows selection from a keyboard and point-click based interaction model, and from a deferred and immediate communication based interaction model. ~~includes deferred and immediate modes.~~

28. (Currently Amended) The Internet application system of claim 21, wherein the client device is wireless system.

29. (Currently Amended) A computer program product embedded in a computer readable medium for generating a customizable application user interface, comprising:
program code for generating an application user interface ~~using a customizable interaction model~~ including at least one user interface element customizable by each of a plurality of users, the application user interface configured for delivery to a client device of each user and to operate as an interface between ~~[[a]]~~ each user and ~~the computer program an Internet application including the application user interface;~~

program code for allowing ~~the~~ each user to modify personalization data for ~~the each user, the personalization data characterizing the customizable interaction model~~ at least one property of the at least one user interface element, for use with the application user interface and any other application interface using ~~that customizable interaction model~~ the at least one user interface element;

program code for storing in a user-modifiable data record the personalization data
in a location physically remote from the client device of each user; ~~[[,]] the data record~~
~~characterizing the customizable interaction model including the user-modified functionality; and~~
program code for storing metadata configurable for use by the user interface
generator to access the ~~user-modifiable~~ data record,

~~wherein the customizable interaction model is operable to be used to generate a~~
~~respective application user interface for each of a plurality of additional applications, whereby~~
~~the user interaction customized by the user is provided with the respective application user~~
~~interface, independent of a type of the application user interface, and delivered to the client,~~

wherein each user is able to specify modify the personalization data ~~for the~~
~~customizable interaction model~~ such that the application user interface functions differently for
different users. ~~and~~

~~wherein the customized user interaction for each user is the same for each~~
~~application utilizing the customizable interaction model.~~

30. (Currently Amended) The computer program product of claim 29,
wherein the ~~customizable~~ at least one property of the at least one user interface element is
associated with an interaction model including ~~includes~~ deferred and immediate modes.

31. (Currently Amended) The computer program product of claim 29,
wherein the user interface generator is responsive to an identity of ~~the~~ each user.

Claims 32-37. (Canceled)

38. (Currently Amended) A method of developing an application user
interface associated with an Internet application, the method comprising the steps of:
selecting ~~a user-customizable~~ an interaction model characterized by a data record,
the data record being stored in a data repository and being ~~user~~ modifiable allowing ~~a user~~ each
of a plurality of users to modify functionality of at least one user interface element in the

application user interface, the data repository being physically remote from a client device of each user used to display the application user interface;

generating the application user interface for ~~the~~ each user using the ~~user~~ customizable selected interaction model and the data record;

generating metadata ~~characterizing the user customizable~~ associated with the interaction model, ~~including the user modified functionality~~, the metadata including a reference to the data record; and

storing the metadata in association with the Internet application, the Internet application being configured for access using the application user interface,

~~wherein the user customizable interaction model is operable to be used to generate a respective application user interface for each of a plurality of additional applications, whereby the functionality customized by the user is provided with the respective application user interface, independent of a type of the application user interface,~~

wherein each user is able to specify modify the data record personalization data ~~for the customizable interaction model~~ such that the application user interface functions differently for different users, ~~and~~

~~wherein the customized user interaction for each user is the same for each application utilizing the customizable interaction model.~~

39. (Previously Presented) The method of claim 38, wherein the application user interface includes an interaction model control command.

40. (Currently Amended) The method of claim 38, further including determining when communication occurs between the client device and the Internet application responsive to the interaction model.

41. (Currently Amended) A method of generating an application user interface, the method comprising the steps of:

accessing a page definition, the page definition including metadata associated with [[a]] at least one customizable property of [[a]] at least one ~~interaction model~~ user interface element of the application user interface;

accessing a data record using the metadata, the data record being stored in a data repository and characterizing the customizable property and being user modifiable allowing a user by each of a plurality of users, ~~to modify the customizable property~~, the data repository being physically remote from a client device of each user used to display the application user interface;

determining a value characterizing the at least one customizable property using the data record;

generating markup-language responsive to the determined value; and

including the generated markup-language in the application user interface, the application user interface being an interface to an Internet application,

~~wherein the user interaction model is operable to be used to generate a respective application user interface for each of a plurality of additional applications, whereby the customizable property customized by the user is provided with the respective application user interface, independent of a type of the application user interface,~~

wherein each user is able to ~~specify personalization data for~~ modify the data record characterizing the at least one customizable ~~interaction model~~ property such that the application user interface including the user interface elements functions differently for different users, ~~and~~

~~wherein the customized user interaction for each user is the same for each application utilizing the customizable interaction model.~~

42. (Previously Presented) The method of claim 41, further including modifying the data record using a personalization system.

43. (Currently Amended) The method of claim 41, wherein the ~~customized~~ customizable property includes a deferred mode of communication between the client device and the Internet application.

44. (Currently Amended) The method of claim 41, wherein the ~~customized~~ customizable property is configured according to an identity of ~~[[a]]~~ each user or an identity of the client device of each user.

45. (Currently Amended) A method of personalizing ~~a user customizable~~ an interaction model to be used with multiple application user interfaces, the method comprising the steps of:

selecting ~~a user customizable~~ the interaction model associated with a data record and specifying interaction functionality to be associated with each application user interface, the data record characterizing the interaction model and being configurable customizable by a user ~~each of a plurality of users on a client device, for characterizing the user customizable interaction model~~, the ~~user customizable~~ interaction model including a plurality of interaction modes;

generating at least one application user interface using the ~~user customizable~~ interaction model and the data record;

generating metadata characterizing the ~~user customizable~~ interaction model, the metadata including a reference to the data record; and

storing the metadata in association with an application, the application being configured for access using the application user interface,

~~wherein the user interaction model is operable to be used to generate a respective application user interface for each of a plurality of applications, whereby the interaction functionality specified by the user customizable interaction model is provided with the respective application user interface, independent of a type of the application user interface,~~

~~wherein each user is able to specify personalization data for the customizable~~ modify the data record characterizing the interaction model such that the application user interface functions differently for different users, ~~and~~

~~wherein the customized user interaction for each user is the same for each application utilizing the customizable interaction model.~~

46. (Currently Amended) The method of claim 45, wherein a mode of the ~~user-customizable~~ interaction model is responsive to a command included in the application user interface.

47. (Currently Amended) The method of claim 45, wherein a customizable property of the ~~user-customizable~~ interaction model includes an immediate mode.

48. (Currently Amended) The method of claim 45, wherein a customizable state of the ~~user-customizable~~ interaction model is configurable to persist between uses of the HTML based application user interface.

Claims 49-59. (Canceled)

60. (Currently Amended) A computer implemented method of executing an Internet application, comprising the steps of:

receiving a request₁ from ~~a user~~ a client device of each of a plurality of users, for an application user interface₁ ~~from a client~~, the application user interface including [[a]] at least one user interface element;

accessing a page definition, the page definition including metadata ~~characterizing associated with~~ the application user interface;

retrieving, using the metadata, a value characterizing ~~a customizable an~~ interaction model associated with the user interface₁ ~~using the metadata~~, the value being stored in a data repository physically remote from the client device of each user, the value further being specified by ~~the~~ each user in order to modify interaction functionality of the application user interface;

generating HTML responsive to the retrieved value;

including the generated HTML in the application user interface; and

delivering the application user interface to the client device of each user, the application user interface being an interface between [[a]] each user and the Internet application,

~~wherein the customizable interaction model is further associated with additional applications whereby the modified interaction functionality is provided in a respective application user interface for each additional application independent of a type of interface being generated;~~

~~wherein each user is able to specify personalization data for modify the value in the data repository characterizing the customizable interaction model such that the application user interface functions differently for different users. [[,]] and~~

~~wherein the customized user interaction for each user is the same for each application utilizing the customizable interaction model.~~

61. (Currently Amended) The method of claim 60, wherein the retrieved value is used to determine a deferred or immediate mode of the customizable interaction model for communication between the client device and the Internet application.

62. (Currently Amended) The method of claim 60, wherein the customizable interaction model is specific to a user interface element.

63. (Currently Amended) The method of claim 60, further including displaying the application user interface at the client device using standard web browser protocols.

64. (Currently Amended) The method of claim 60, further including identifying a requestor of the application user interface, wherein the customizable interaction model is responsive to the identity of the requester.

Claims 65-70. (Canceled)

71. (Currently Amended) A computer implemented method of generating an application user interface configured for delivery from a server to a client device, comprising the steps of:

receiving, at the server, a request for the application user interface from a ~~user at~~
the client device of each of a plurality of users;

identifying ~~the~~ each user requesting the application user interface, the application
user interface being associated with a ~~user-customizable~~ an interaction model;

accessing a page definition, the page definition including metadata and
~~characterizing~~ associated with the application user interface;

retrieving, using the metadata and the identity of ~~the~~ each user, a value for
characterizing the ~~user-customizable~~ interaction model, the value being selected by ~~the requester~~
each user in order to modify interaction functionality of the application user interface, the value
being stored in a data repository;

generating HTML incorporating the interaction model using the value;

including the generated HTML in the application user interface; and

delivering the application user interface from the server to the client device of
each user,

~~wherein the customizable interaction model is further associated with additional
applications whereby the modified interaction functionality is provided in a respective
application user interface for each additional application independent of a type of interface being
generated;~~

~~wherein each user is able to specify personalization data for~~ modify the value in
the data repository characterizing the customizable interaction model such that the application
user interface functions differently for different users. ~~[[,]] and~~

~~wherein the customized user interaction for each user is the same for each
application utilizing the customizable interaction model.~~

72. (Currently Amended) The method of claim 71, further including
communicating from the client device to the server responsive to the interaction model.

73. (Previously Presented) The method of claim 72, wherein the
communication occurs in a deferred mode.

74. (Previously Presented) The method of claim 71, further including displaying an interaction model control command in the user interface.

Claims 75-77. (Canceled)

78. (New) The system of claim 4, wherein the at least one property of the at least one user interface element is associated with at least one of mode of data input and output, presentation of requested information, and mode of communication between the client device and the Internet application server.

79. (New) The system of claim 4, wherein the at least one property of the at least one user interface element includes a tab order property, a find command, a view all command, and an immediate access keystroke sequence.

80. (New) The method of claim 41 wherein the customizable property includes a tab order property, a find command, a view all command, and immediate access keystroke sequence.